

Olin College Registration Booklet

Fall 2011

Classes begin Thursday, September 1, 2011

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Important Information about Mathematics in the 2011-12 Academic Year

Students who still need to complete any of the current 2-credit mathematics course (VC, PS, LA, DE) are **STRONGLY** encouraged to take them in the Fall 2011 semester. Revisions to the mathematics curriculum are likely, in which case most or all of the 2-credit mathematics courses at Olin will be phased out starting after the Fall 2011 semester. Note: Vector Calculus is NOT a prerequisite for Linear Algebra or Differential Equations.

**Registration Timelines
for Add; Drop and Pass/No Credit ; Withdraw**

Session	Add	Drop and Pass/No Credit	Withdraw
Full Semester (Sep 1 – Dec 9)	September 15, 2011	November 4, 2011	December 9, 2011
Session I (Sep 1 – Oct 19)	September 8, 2011	October 5, 2011	October 19, 2011
Session II (Oct 20 – Dec 9)	October 26, 2011	November 28, 2011	December 9, 2011

Frequently Asked Questions and Instructions

What do I register for?

Students are allowed to register for a maximum of 20 credits. All students have a minimum requirement of 12 degree credits to be eligible for the Olin tuition scholarship.

The maximum credits can be distributed between **degree** and **non-degree** activities.

Degree activities are defined as counting toward graduation credit and course requirements (all students must have a minimum of 12 degree credits). Examples of registered degree activities are standard courses, cross-registered courses, independent study and research for degree credit. Consult the catalog for your specific degree requirements.

Non-degree activities are defined as **not** counting toward degree and subject requirements. An example is a passionate pursuit. Non-degree activities are not graded and appear on your transcript if you have met all of your objectives for the activity. Remember these do not count in your minimum requirement of 12 degree credits.

How do I choose my activities for degree and non-degree credit?

Use this booklet as a tool to assist you in preparation for advising discussions. Meet with your adviser BEFORE your registration date. Your adviser will “clear” you to register. If you are not cleared, you will not be permitted to register.

I am doing a Study Away Program next semester. Do I need to register?

YES! Students in approved semester away programs must register for a single course: **AWAY1000: Study Away Program**. This course will allow Olin to certify you as a full-time student during the semester you are away. Your approved course work will be transferred to your academic record upon receipt of a transcript from the host institution (provided you have received the minimum required grade). Note: All registrations will be cross-referenced with the Study Away Committee.

Olin Self Study, Independent Study and Research - - - How do I register?

- Olin’s Self Study – Please see information on the [StAR Center website](#) for details. If you are doing an independent activity or research, you will need to complete a form with your OSS intention by the last day to add a course for the fall 2011 semester.
- Independent Study and Research - Students interested in doing research and/or independent study must complete a Cover Sheet for Independent Study and Research. This form can be found on the forms tab of the StAR Center website.
- All forms must be received by the add deadline for the fall 2011 semester. There are no exceptions.

I am interested in doing a Passionate Pursuit next semester. How do I register?

If you are interested in doing a Passionate Pursuit, consult the Student Handbook for FAQ’s. Passionate Pursuits require approval from the Executive committee of the Passionate Pursuit Board in addition to consent of a faculty sponsor and the student’s adviser. Passionate Pursuit proposals should be sent to the chair of the executive board, the Dean of Student Life. The deadline is around mid-semester.

CROSS-REGISTRATION: How do I participate in Cross-Registration with Babson, Brandeis, or Wellesley (BBW)?

Olin students are allowed to take one course per school, per semester; with the exception of first semester freshmen. First semester freshmen are not permitted to participate in cross-registration.

When selecting a BBW course, keep in mind the time constraints of your Olin courses. Additionally, it is important to check for course pre-requisites and the enrollment. Under most circumstances, if the course is full, you will not be able to register for the course. Enrollment is generally found under course “tally” or listed with the course info.

All BBW courses will be noted on your Olin degree audit by ‘color’ (the area of discipline). It is the student’s responsibility to review the ARB approved ‘coloring’ on the ARB website and note the color on the cross-reg form. If a course is not found on the ‘list’, the student must petition the CSTB for appropriate coloring.

In order to submit a cross-registration request, use the cross-registration portlet under the MyStAR tab at <http://my.olin.edu>. The StAR Center will work with the host school to facilitate the registration. The following dates reflect the dates that the host school will accept cross-registration requests from Olin’s StAR Center. Olin students may submit requests to the StAR Center any time before the later of the dates listed below.

Babson College Cross Registration dates:

April 5 – 15; August 12 – September 7

You can find their offerings at <http://www.babson.edu/registrar/>.

Brandeis University Cross Registration dates:

August 16 - September 15

All courses require instructor permission in writing (email) or via a permission code to submit with your request. You can find Brandeis offerings at

<http://www.brandeis.edu/registrar/bulletin/provisional/courses/index.html>

Wellesley College Cross Registration dates:

April 25 - July 25; August 30 – September 9

You can find their offerings at [Wellesley Schedule](#) .

How do I Cross-Register to Olin College?

Olin welcomes students from Babson, Brandeis and Wellesley to register for Olin courses. In general, all courses except for some first year courses are eligible for cross-registration with the permission of the Olin faculty member. BBW students should send a request for a course through their Registrar’s Office to the Student Accounts and Records (StAR) Center. Cross-registration request forms can be found at the home institution. Visit <http://star.olin.edu> for more information.

What About Co-Curriculars?

Registration and descriptions for Co-Curriculars will be released during the add period in September. If you have a particular interest in a co-curricular that you would like to see offered, you are encouraged to seek out a “faculty/staff” sponsor before the end of this semester and notify the Dean of Student Life. Co-Curricular offerings will be posted at <http://star.olin.edu>.

How and When Do I Register?

Registration is done online using SIS.OLIN.EDU (we are not using the portal as it is still under maintenance for web registration) <https://sis.olin.edu>

Here are some useful tips from Olin's Information Technology Department:

During course registration sessions, the IT Help Desk often receives reports about sis.olin.edu and my.olin.edu being slow or unresponsive. In almost all cases, this is due to an excessive and often unnecessary workload placed on the system. By following these guidelines, you can help minimize this load and increase system responsiveness:

- Please use only one browser tab on one computer. In past sessions, some students were connecting from as many as four different computers or opening multiple sessions in multiple tabs. Each additional session consumes resources on the server and only serves to slow the system down.
- Please be patient and do not refresh the page. This causes the background system processing for the same task to be executed multiple times, adding additional load to the system.
- Please remember that everyone else in your group is trying to register at the same time. As much as we would like the system to be as responsive as it is during non-registration periods, this simply cannot happen when over 60 students are attempting to register for classes at the exact same moment. It takes time for the system to process all incoming requests and reconcile them with each other.
- Please avoid using the system during other groups' registration times. Again, this adds additional work to an already busy system.

With the exception of one session, we have seen the fewest slowdowns and smallest workloads on the registration system in the recent past than we have seen in several years thanks to many students following these guidelines.

We do realize the importance of registration to every student on campus. If you encounter errors from either sis.olin.edu or my.olin.edu during the registration process, please take a screenshot of the error you receive and send it, along with a detailed description of what you were doing when it occurred, to helpdesk@olin.edu so that we can resolve the issue as quickly as possible.

REGISTRATION TIMES:

On-line registration will take place April 11-14th during the evening hours. You can see your registration date and time by logging on to <https://sis.olin.edu> ; select the session FA and year 2011; access the 'registration' menu option.

(Registration will be open to cleared and eligible students only. A cleared student is one that has met with his/her adviser and has an updated learning plan. An eligible student is one who does not have an outstanding financial balance with the college.)

When is the Add Period – the Drop Period – the last day to withdraw from a course? – REFERENCE HANDY CHART at beginning of this Booklet.

The Add period* is the first 10 class days of the semester. The Add period will begin on September 1, 2011 and end on September 15, 2011. Add requests can be processed in person at the StAR Center and on-line. Add/Drop forms can be found at <http://star.olin.edu>.

The Drop period begins September 1, 2011 and ends November 4, 2011 (for ½ session deadlines see chart). During this time, students can alter their schedule as long as they remain in a minimum of 12 credits of degree activities. A “drop” is removed from the student schedule and does not appear on transcripts. Drops and withdrawals after the add period require a hard copy form and must be processed at the StAR Center. There are no on-line drops after the add period ends.

The last day to withdraw from a course is the last day of instruction.

Waitlists

Waitlists are available on most courses. In sis.olin.edu, a waitlist comment is included in the course catalog offering section by clicking on the “VIEW” button under requirements if there is indeed a waitlist.

Cancellations

Note that all courses listed each semester are subject to cancellation due to insufficient enrollment.

Textbooks

Pursuant to the Higher Education Opportunity Act (HEOA) of 2008, information regarding required and recommended textbooks and supplemental course material may be viewed from the Olin’s internet course schedule via <https://my.olin.edu>.

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Fall 2011 Supplement to Current Course Catalog

Degree requirements are outlined in the 2010-11 Course Catalog. You may view the on-line catalog at [2010-11 Course Catalog](#)

Course descriptions can also be found in the [2010-11 Course Catalog](#). Fall 2011 courses that were approved after the catalog printing AND Special Topics course descriptions are listed here.

AHSE 1199 Arts, Humanities and Social Science Foundation Topic

Section 01 / Subtitle: How the Supreme Court Shapes America: Rights, Politics, and More

Instructor: Viti

Credits: 4 AHS

Supreme Court watcher Cass Sunstein writes, "Every day of every year, we Americans are freer because of our Constitution. If we're allowed to say what we like, worship as we choose, proceed without fear of the police, and even govern ourselves, we owe a large debt to our founding document. But our freedom is more fragile than it appears. The meaning of the Constitution is often disputed. And the disputes are often settled by the Supreme Court of the United States."

In this course, we will transport ourselves back to 1803 and the Court's landmark decision in *Marbury v. Madison* asserting the judicial review authority of the Court. We'll touch upon several crucial decisions of the 19th and 20th centuries, including some now universally recognized as "bad" decisions. We will examine how 19th century laissez faire economics dictated the Court's decisions; how the Court reacted to states' and Congress' passage of protective labor laws in the 1920's and '30's; and how the Court resolved 1950's issues, resulting in the of limits on school prayer, the protection of voting rights of minorities, and most notably, the end to segregated public schools through the U.S.

We will also study decisions affecting our personal rights, including *Roe v. Wade* and its progeny. We'll conclude our journey by focusing on decisions from the past five years regarding the EPA's duty to enforce controls over CO2 omissions, free speech rights of conservative religious groups who picket the funerals of soldiers who died in Iraq or Afghanistan, and the First Amendment rights of private corporations to fund political advertisements.

The course will entail more than merely reading and competing assigned writing about the Court's work. In class, we will debate both sides of these complex issues. We'll write arguments supporting or critiquing various positions in a case, using evidence from the Court's opinions, as well as from the writings of court watchers including bloggers on both the left and the right.

We'll top off our study of the Court with simulations of oral arguments, drawing on cases you select—from those that the Court will actually be hearing this semester. Members of the class will act as Supreme Court judges, issuing a decision after each oral argument, complete with majority opinion and in some cases, dissents.

By the time you finish this course, you will be well equipped to argue articulately and persuasively at the holiday table, and you may even entertain thoughts of combining your career as an engineer with a foray into law.

Section 02 / The Human Connection: Tools and Concepts from Anthropology for Understanding Today's World

Instructor: Lynch

Credits: 4 AHS

The book *Wired to Care* opens with the story of a designer who disguised herself as an elderly person to better understand the experiences of the elderly in our society. Author Dev Patnaik explains his interest in this experiment. It comes down to empathy: "All of this is to reclaim a very old idea, that quantitative data and facts are no substitute for real-world experience and human connection." Anthropologists have long argued for the importance of putting oneself in other people's shoes for better understanding. The anthropologist Bronislaw Malinowski wrote in 1922 that the goal of the anthropologist "is to grasp the native's point of view, his relation to life, to realize his vision of his world." In this course, students will try out the anthropological methods of participation, observation, interviews, and analysis of cultural materials and texts. This is a hands-on course for students who want to get out and meet people--all with the aim of greater understanding. The course focuses on three thematic topics important to our society in the twenty-first century: aging, religion, and globalization. The class includes assignments, events, and interactions that will take students off campus (perhaps to the Needham Senior Center, local coffee shops, and to Boston's ethnic neighborhoods) and will include visitors from area institutions.

AHSE 2199: Special Topics in Arts, Humanities, Social Sciences***Teaching and Learning in Undergraduate Science & Engineering***

Instructors: Zastavker, Stein

Credits: 4 AHSE

Hours: 4-0-8

Prerequisite: none

This course will examine select topics in teaching and learning in undergraduate science and engineering. The goal of the class is to help participants become effective tutors, teaching assistants, mentors, and future instructors in these fields through a deep theoretical examination of and practice in teaching and learning in STEM courses. In a seminar format, participants will discuss research on best practices in pedagogy and curriculum design, cognition and learning, student classroom experiences, diversity, and assessment. Students will gain experience in instructional design, pedagogy, and assessment, and will develop a teaching portfolio. While the course materials discussed are largely on research in undergraduate science and engineering education, the course will touch on issues in mathematics education, and many course concepts can be extended to mathematics and technology instruction at K-16 level.

AHSE 3599: Special Topics in Business and Entrepreneurship***Intellectual Property for Engineers and Scientists***

Instructor: D. Kerns; S. Gold

Credits: 2 AHSE

Hours: 2-0-4

Prerequisite: AHSE 1500 (FBE)

This course introduces the fundamentals of intellectual property (IP): patents, trade secrets, copyrights and trademarks. There is an emphasis on patent protection for inventions, and a major project component of the course in which each student will create elements of patent applications that will be peer-reviewed in student teams. Topics include introduction to patent law, identifying what's patentable, tests for patentability, patent searches to identify prior art and as a resource for further innovation, the structure of a patent, reading and drafting patent claims, the patent prosecution process, international patents, commercialization of patent rights, protecting software, Olin College's unique IP policy, and the basics of trade secrets and copyrights.

AHSE 4190: Arts, Humanities, Social Sciences Capstone Project

Instructor: Lynch

Credits: 4 AHSE

All students must complete either an AHS Capstone project (AHSE4190), an E! Capstone project (AHSE4590), or an AHS Capstone course by the end of their senior year. To complete the AHS or E! Capstone project in the fall of 2011, register for AHSE4190 or AHSE4590 now. To declare an AHS course your AHS Capstone course, register for the AHS course now, complete the form at <http://projects.olin.edu/ahs/forms/form-capstone-proposal.html>, and email the form to ahs@olin.edu. For complete information on the AHS Capstone please consult the AHS website at <http://projects.olin.edu/ahs/capstone.html>.

ENGR 1199: Special Topics in Engineering***Introduction to the Microelectronics and Nanotechnology Revolution***

Instructor: S. Kerns

Credits: 4 ENGR

Hours: 4-0-8

This course will develop the general scientific and engineering underpinnings of microelectronics and nanotechnology, and examine how this new technological revolution is influencing a broad array of interdisciplinary fields (engineering, biology, biomedical engineering, material science, chemistry, physics, medicine, technology, management) and civilization as a whole (art, business, film, entertainment, politics). Special "widget deconstruction" topics will address common pieces of modern technology (e.g., cell phone, flash drive, GPS, DVD, digital camera) from the perspective of: "How do they do what they do?"; "How does microelectronics & nanotechnology plan in that functionality?"; and "Where is the technology going and how will it change the way we live our lives?" Student-led "round-table" discussions will examine the transformational impact of the microelectronics and nanotechnology revolution on modern society. No special knowledge of electrical and computer engineering is assumed, but the class will be highly interactive and student participation is key.

ENGR 2199: Special Topics in Engineering

Applications of Microfluidics

Instructor: Irimia

Credits: 4 ENGR

Hours: 4-0-8

REGISTRATION NOTE: This course requires sufficient enrollment to run.

Microfluidics systems can manipulate small volumes of fluids using small networks of channels, each of which are 10 to 100 microns in size. These devices offer the promise of integrating many laboratory processes onto a single chip, thereby increasing throughput and decreasing cost. Microfluidic technologies are proving to be a critical tool for research in drug development, genomics, proteomics, molecular diagnostics, and analytical chemistry. Further development of microfluidics is one key to future applications such as personalized medicine, integrated sensors for chemical and biological detection, inexpensive medical diagnostics, and massively parallel drug discovery. Just as microelectronics revolutionized computation by increasing capacity and decreasing the cost of performing calculations, microfluidics has the potential to do the same in biology and chemistry. In this course, we will cover some of the basic physics, chemistry, fluid mechanics, engineering and mathematics relevant to microfluidics. We will study existing microfluidics designs and functions. The course will be project based with students designing and building functional microfluidic devices relevant to global health projects.

ENGR 3299: Special Topics in Design/ENGR 4199: Alternative Capstone in Engineering

Affordable Design and Entrepreneurship (ADE)

Instructor: Linder

Credits: 4 ENGR

Hours: 2-2-8

Prerequisites: AHSE 1500, ENGR 2210 and ENGR 2250 for Olin Students; FME1000 and EPS 3501 for Babson students; Junior standing

Usually Offered: Fall, Spring

Registration note: Enrollment is limited. All students must apply by completing a short application, and successful applicants are admitted to the course.

Students gain experience innovating to address social challenges through a design and entrepreneurship approach that emphasizes context, collaboration, and sustainability. The focus is on alleviating poverty by deploying innovations in communities that generate income and meet daily human needs in areas like energy, water, health, agriculture, transportation, and communication. For example, students might create and test the technology for a micro energy utility, such as a concentrated-solar battery charging station, and the business model that makes it viable.

The course is run as a firm where students work in teams with community partners nationally and internationally to co-create and launch new products and ventures. Topics covered include the conditions and causes of poverty, approaches to poverty alleviation, cultural awareness and community engagement, affordable design principles and practices, and social venture models and strategies including financing and scaling. Groups of students travel to partner sites in countries like India, Morocco, Ghana and the U.S. to build relationships, gain contextual awareness, and implement projects.

This course is offered jointly with Babson, and Babson students are strongly encouraged to enroll in EPS 4515 at Babson. At Olin, ADE is an experimental, two-course engineering capstone program. Olin students can elect ADE as an alternative to the SCOPE program beginning in the second semester of their junior year or later by registering for ENGR 4199. They cannot change programs once enrolled. Alternatively, this course can be taken for one semester to fulfill the Olin Design Depth requirement by registering for ENGR 3299.

ENGR 3499: Special Topics in Electrical and Computer Engineering

Microelectromechanical Systems

Instructor: D. Kerns

Credits: 4 ENGR

Hours: 4-0-8

Prerequisite: ENGR 1120

THIS SECTION HAS BEEN CANCELLED

This course provides an introduction to the analysis, design and fabrication of microelectromechanical systems (MEMS). Students will learn design and analytical tools taken from an array of diverse fields, such as mechanical engineering, electrical engineering and materials science. Students will also learn basic fabrication techniques and material properties used in the creation of MEMS devices at the physical scale of micrometers (microns) and below. . Examples of system applications will be selected from a wide set of fields and may include energy harvesters, inertial sensors, chemical sensors and reactors, microturbine engines, microactuators, cell sorters and micromirror displays.

ENGR 3699 Special Topics in Bioengineering

Tissue Engineering

Instructor: Sarang-Sieminski

Credits 4 ENGR

Hours: 4-0-8

Registration note: Enrollment is by permission of instructor only.

Tissue engineering is often defined as growing or regenerating tissues. To grow engineered tissues requires an understanding of the cell and tissue biology as well as understanding of how culture conditions (transport of oxygen and biochemical factors, application of mechanical forces, etc.) affect the growing tissues. This course will begin with an overview of developmental biology and the types of biochemical and biophysical cues cells receive and respond to during development that direct them to form specific tissues, followed by an overview of the larger field of tissue engineering. We will discuss cell source, the use of natural or synthetic biomaterials, development of bioreactors, the use of biochemical supplements, as well as motivations and applications of engineered tissues – from replacement of damaged tissues to models of tissue function. The bulk of this course will be dedicated to the design, implementation, and analysis of experiments to grow engineered tissues. This will be an intensive lab-based course in which groups of students will choose the particular aspect of tissue engineering (e.g. scaffold choice, biochemical culture conditions, mechanical stimulation, functional readouts) they would like to pursue and perform their own experiments and analysis (e.g. biochemical, mechanical, histological). Some lab experience required.

SUST 2201 Introduction to Sustainability

Instructors: DeSombre (Wellesley), Linder and Stolk, George (Babson)

Credits 4

Hours 4-0-8

Prerequisites: none. Open to sophomores and juniors. First-year students may petition to enroll.

This case-based course introduces students to the basic concepts and tools that business, engineering, and the liberal arts (science, social science, and the humanities) bring to a consideration of sustainability. It is team-taught by faculty members from each institution, with coursework fully integrated across the three approaches. The course will draw empirical material from, and apply concepts and tools to, a semester-long case (such as the sustainability of a city block, the transition to clean energy worldwide, or the life-cycle of a common consumer product).

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
Babson-Olin-Wellesley CERT	SUST 2201	01	Introduction to Sustainability	Stolk; Linder; et al	4	W 3:30-6:30p	AC318	15	
AHS	AHSE 0112	01	The Olin Conductorless Orchestra	Dabby	1	R 6:45-9p	AC305 AC318	30	Audition Required; See Description
AHS	AHSE 2112	01	Six Books that Changed the World	Martello	2	TF 1:30-3:10p	AC326	21	Session I
AHS	AHSE 2114	01	Science Fiction and Historical Context	Martello	2	TF 1:30-3:10p	AC326	21	Session II
AHS	AHSE 2131	01	Responsive Drawing and Visual Thinking	Donis-Keller	4	TF 1:30-3:10p	AC313	15	
AHS	AHSE 2199	01	Special Topics in Arts, Humanities, Social Sciences: <i>Teaching & Learning in Undergraduate Science and Engineering</i>	Zastavker, Stein	4	T 3:20-6p	AC318	18	Waitlist Available
AHS	AHSE 3190	01	Arts, Humanities, Social Sciences Capstone Preparatory Workshop	Epstein	1	n/a	n/a	20	
AHS	AHSE 4190	01	Arts, Humanities, Social Sciences Capstone	Lynch	4	T 1:30-4:10p	AC328	25	
DSN	ENGR 3210	01	Sustainable Design	Linder	4	MR 9-10:40a	AC318	28	
DSN	ENGR 3220	01	Human Factors Interface Design	Stein; Millner	4	MR 3:20-6p	AC109	40	Waitlist Available
DSN	ENGR 3250	01	Product Design & Development	Eris	4	T 1:30-5pm	AC128	15	Taught with Rhode Island School of Design and Babson College
DSN	ENGR 3299	01	Special Topics in Design: <i>Affordable Design and Entrepreneurship</i>	Linder; Mur-Miranda	4	T 1:30-5pm; F 1:30-3:10p	AC209	tbd	cross-listed with ENGR4199A; application process required through Professor Ben Linder
E!	AHSE 1500	01	The Entrepreneurial Initiative	Gold	4	TF 9-10:40a	AC326	40	
E!	AHSE 3510	01	New Technology Ventures	Parizeau	4	TR 4-5:35p	AC126	15	Cross-listed course with Babson; Waitlist Available
E!	AHSE 3599	01	Special Topics in Business and Entrepreneurship: <i>Intellectual Property for Engineers and Scientists</i>	Kerns, D; Gold	2	T 10:50-12:30p	AC128	20	
E!	AHSE 4590	01	Entrepreneurship Capstone	Gold	4	F 10:50-12:30p	AC102	10	
E:BE	ENGR3600	01	Topics in Bioengineering	Sarang-Sieminski	4	MR 3:20-5p	AC318	25	

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
E:BE	ENGR3699	01	Special Topics in Bioengineering: <i>Tissue Engineering</i>	Sarang-Sieminski	4	TF 9-11:40a	AC404	25	Enrollment by Permission of Instructor; Please see Professor Sarang-Sieminski
E:C	ENGR 2510	01	Software Design	Downey	4	TF 10:50-12:30p	AC318	25	
E:C	ENGR 3540	01	Computational Modeling	Downey	4	TF 1:30-3:10p	AC318	25	This course is taught with EXPERIMENTAL GRADING
E:MS	ENGR 3820	01	Failure Analysis	Stolk	4	MR 1:30-3:10p	AC413	21	This course is taught with EXPERIMENTAL GRADING
E:SYS	ENGR 3710	01	Systems	Morrow	4	TF 10:50-12:30p	AC309	25	
ECE	ENGR 3410	01	Computer Architecture	Wolz	4	MR 1:30-3:10p	AC304	25	Waitlist Available
ECE	ENGR 3410	02	Computer Architecture	Wolz	4	MR 3:20-5p	AC304	25	Waitlist Available
ECE	ENGR 3415	01	Digital Signal Processing	Dabby	4	TF 10:50-12:30p	AC126	25	
ECE	ENGR 3420	01	Introduction to Analog and Digital Communications	Govindasamy	4	TF 10:50-12:30p	AC304	25	
ECE	ENGR 3450	01	Semiconductor Devices	Kerns, S	4	TF 1:30-3:10p	AC113	25	
ECE	ENGR 3499	04	Special Topics in Electrical and Computer Engineering: Microelectromechanical Systems	Kerns, D	4	MR 9-10:40a	AC304	25	CANCELLED
ENGR	ENGR 1199	01	Special Topics in Engineering: <i>Introduction to the Microelectronics and Nanotechnology Revolution</i>	Kerns, S	4	TF 9-10:40a	AC113	12	This course does not apply to major course requirements BUT does count toward engineering credit requirements
ENGR	ENGR 1330	01	Fundamentals of Machine Shop Operations	Anderson	4	W 12:30-4:30p	AC104	6	
ENGR	ENGR 2199	04	Special Topics in Engineering: Applications of Microfluidics	Irimia	4	MR 1:30-3:10p	AC318	10	CANCELLED
ENGR	ENGR 2210	01	Principles of Engineering	Govindasamy	4	MR 10:50-12:30p	AC306	28	
ENGR	ENGR 2210	02	Principles of Engineering	Hoover	4	TF 1:30-3:10p	AC306	28	
ENGR	ENGR 4190	01	Senior Capstone Program in Engineering (SCOPE)	Bennett, et al	4	Wednesdays		tbd	Enroll in Section 01 and you will be placed on a team in the fall.

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ENGR	ENGR 4199	01	Alternative Capstone in Engineering: <i>Affordable Design and Entrepreneurship</i>	Linder; Mur-Miranda	4	T 1:30-5pm; F 1:30-3:10p	AC209	12	Alternative Capstone Stream: Selection via application process with Prof Linder
ME	ENGR 2330	01	Introduction to Mechanical Prototyping	Hoover	4	MR 10:50-12:30p	AC309	25	
ME	ENGR 2340	01	Dynamics	Mahajan	4	TF 10:50-12:30p	AC328	35	
ME	ENGR 2340	02	Dynamics	Mahajan	4	TF 9-10:40a	AC328	35	
ME	ENGR 3310	01	Transport Phenomena	Storey; Townsend	4	MR 3:20-5p	AC309	30	
ME	ENGR 3330	01	Mechanical Design	Miller, S	4	MR 9-10:40a	AC309	30	Waitlist Available
ME	ENGR 3390	01	Robotics	Bennett	4	TF 1:30-3:10p	AC309	24	Waitlist Available
MTH	MTH 1120	01	Vector Calculus	Geddes	2	MR 1:30-3:10p	AC326	48	Session II
MTH	MTH 2110	01	Discrete Math	Adams	4	MR 10:50-12:30p	AC326	40	Waitlist Available
MTH	MTH 2120	01	Linear Algebra	Adams	2	MR 9-10:40a	AC326	48	Session I; Vector Calculus is not a pre-requisite
MTH	MTH 2130	01	Probability and Statistics (NOTE: SESSION I)	Downey	2	TF 9-10:40a	AC318	24	This course is taught with a 'computational' flavor. In addition to the catalog description, there will be emphasis on computational methods, stochastic simulation and Bayesian statistics. To this end, a prerequisite of ENGR2510, Software Design or comparable programming experience in Python is required
MTH	MTH 2130	02	Probability and Statistics (NOTE: SESSION II)	Downey	2	TF 9-10:40a	AC318	24	
MTH	MTH 2130	03	Probability and Statistics	Ho	2	MR 1:30-3:10p	AC417	48	Session I
MTH	MTH 2130	04	Probability and Statistics	Ho	2	MR 1:30-3:10p	AC417	48	Session II
MTH	MTH 2140	01	Differential Equations	Hoffman	2	MR 1:30-3:10p	AC326	48	Session I; Vector Calculus is not a pre-requisite
MTH	MTH 3120	01	Partial Differential Equations	Hoffman	4	MR 10:50-12:30p	AC328	42	
OIE	AHSE 1100	01	History of Technology: A Cultural and Contextual Approach	Martello	4	TF 9-10:40a	AC309	15	AHS Foundation

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
OIE	AHSE 1122	01	The Wired Ensemble - Instruments, Voices, Players	Dabby	4	T 3:20-5:00p.; F 9-10:40a	AC305 AC304	15	AHS Foundation
OIE	AHSE 1155	01	Identity from the Mind and the Brain: Who Am I and How Do I Know	Adler	4	TF 9-10:40a	AC417	15	AHS Foundation
OIE	AHSE 1199	01	Arts, Humanities, Social Science Foundation Topic: <i>How the Supreme Court Shapes America - Rights, Politics, and More</i>	Viti	4	TF 9-10:40a	CC209 CC211	15	AHS Foundation
OIE	AHSE 1199	02	Arts, Humanities, Social Science Foundation Topic: <i>The Human Connection: Tools & Concepts from Anthropology for Understanding Today's World</i>	Lynch	4	T 9-10:40a; F 9-12noon	AC128	15	AHS Foundation; Friday add'l time is for off campus visits
OIE	ENGR 1110	01	Modeling and Control	Storey; D. Kerns	3	M 1:30-3:10p; T 1:30-3:10p	Mon MH120/ AC428	25	
OIE	ENGR 1110	02	Modeling and Control	Storey; Mur-Miranda; D. Kerns	3	M 1:30-3:10p; W 1:30-3:10p	Mon MH120/ AC428	25	
OIE	ENGR 1110	03	Modeling and Control	Storey; Mur-Miranda; D. Kerns	3	M 1:30-3:10p; R 1:30-3:10p	Mon MH120/ AC428	25	
OIE	ENGR 1110	04	Modeling and Control	Storey; D. Kerns	3	M 1:30-3:10p; F 1:30-3:10p	Mon MH120/ AC428	25	
OIE	ENGR 1200	01	Design Nature	Chachra; Eris, Linder; Neeley; Zastavker	4	MR 3:20-6p	AC204 MH120	25	
OIE	ENGR 1200	02	Design Nature		4	MR 3:20-6p	AC206 MH120	25	
OIE	ENGR 1200	03	Design Nature		4	MR 3:20-6p	AC209 MH120	25	
OIE	ENGR 1200	04	Design Nature		4	MR 3:20-6p	AC213 MH120	25	
OIE	MTH 1111 and SCI 1111	01	Modeling and Simulation of the Physical World	Geddes; Ho; Somerville; Townsend	4	MR 9-11:40a; W 9-10:40a	AC204 MH120	25	
OIE	MTH 1111 and SCI 1111	02	Modeling and Simulation of the Physical World		4	MR 9-11:40a; W 9-10:40a	AC206 MH120	25	
OIE	MTH 1111 and SCI 1111	03	Modeling and Simulation of the Physical World		4	MR 9-11:40a; W 9-10:40a	AC209 MH120	25	
OIE	MTH 1111 and SCI 1111	04	Modeling and Simulation of the Physical World		4	MR 9-11:40a; W 9-10:40a	AC213 MH120	25	
OIE	OIE 1000	01	Olin Introductory Experience	Tatar	1	W 3:20-5p	MH120	90	Non degree credit; Required for all First Year Students

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
SCI	SCI 1130	01	Mechanics	Mahajan	4	n/a			Independent Activity; Not available for registration
SCI	SCI 1210	01	Principles of Modern Biology with Lab	Pratt, J	4	TF 1:30-3:10p; LAB T 3:20-6p	AC417; AC404 &406	21	
SCI	SCI 1210	02	Principles of Modern Biology with Lab	Donis-Keller	4	TF 10:50-12:30p; LAB W 3:20-6p	AC417; AC406	21	
SCI	SCI 1410	C1	Materials Science and Solid State Chemistry with Lab: Biomaterials, Polymers and Mechanical Properties	Chachra	4	MR 9-11:40a	AC413	21	
SCI	SCI 1410	D1	Materials Science and Solid State Chemistry with Lab: Electronic and Magnetic Materials	Christianson	4	TF 9-11:40a	AC413	21	
SCI	SCI 2130	01	Modern Physics	Holt	4	MR 10:50-12:30p	AC113	25	
SCI	SCI 2140	01	Relativity	Holt	2	MR 3:20-5p	AC113	25	Session I
SCI	SCI 2210	01	Immunology	Pratt, J	4	TF 10:50-12:30p	AC326	15	
SCI	SCI 2320	01	Organic Chemistry w/ Lab	Morse	4	MR 10:50-12:30p	AC417	30	Choose Lab A or B
SCI	SCI 2320 L	A	LAB: Organic Chemistry	Morse	0	T 3:20-6p	AC409	15	
SCI	SCI 2320 L	B	LAB: Organic Chemistry	Morse	0	W 3:20-6p	AC409	15	
Independent Study	ENGR, SCI, MTH 0098, AHSE 0198; AHSE 0598; ISR 0098		Independent Study Activity		varied				Enroll via Paper Application Process. Deadline is the last day to ADD.
Independent Study	ENGR, SCI, MTH 0098X, AHSE 0198X; AHSE 0598X; ISR 0098X		Independent Study Activity		varied				Enrolling in one of these course numbers identifies the course as meeting a program requirement and will be grading on a 'letter grade' scale. Enroll via Paper Application Process. Deadline is the last day to ADD.
Research	ENGR, SCI, MTH 0097, AHSE 0197; AHSE 0597; ISR 0097		Undergraduate Research Activity		varied				Enroll via Paper Application Process. Deadline is the last day to ADD.
Self Study	ENGR, SCI, MTH, AHSE 4198; AHSE 4598; ISR 4198		Olin Self Study		2 or 4				Enroll via Paper Application Process. Deadline is the last day to ADD.
	AWAY1000	01	Study Away Program		12				Registration Required for those in APPROVED Study Away Programs
	OIP 1000	01	The Olin Internship Practicum	Phelps	1	select seminars	n/a	n/a	SEE PGP for Enrollment information

Color Key- Offering Blocks	ECE						ME						ENGR / DSN Courses						OIE or Genl Req									
	Monday												Tuesday												Wednesday			
9:00 AM	MTH 2120-01 Linear Algebra SESS I AC326		ENGR 3210 Sustainable Design AC318	ENGR 3330 Mechanical Design AC309	ENGR 3499 Spec Top ECE: Microelectromechanical Systems AC304		MTH 1111/SCI 1111 All Sections Modeling and Simulation 9-11:40a	SCI 1410 sec C1 Materials Science and Solid State Chemistry 9-11:40a	AHS Foundation Topics AHSE1100: Hist of Tech AHSE1155: Identity AHSE1199-02: Topic: Human Connection AHSE1199-01: Topic: How the Supreme Court Shapes America AC128, 309, 417, CC209/211	AHSE 1500 The Entrepreneurial Initiative AC326	ENGR 1199 Spec Top Engr: Microelectronic & Nanotech Revolution AC113	ENGR 2340-02 Dynamics AC328	MTH 2130-01 Probability and Statistics Computational w/ Downey SESS I AC318	MTH 2130-02 Probability and Statistics Computational w/ Downey SESS II AC318		ENGR 3699 Topics in Bioeng: Tissue Engr	SCI 1410 sec D1 Materials Science and Solid State Chemistry 9-11:40a	MTH 1111/ SCI 1111 All Sections Modeling and Simulation 9-11:40a MH120 AC204 AC206 AC209 AC213	ENGR 4190 SCOPE									
10:40 AM																												
10:50 AM	MTH 2110 Discrete Math AC326	ENGR 2210, sec 01 Principles of Engineering AC306	ENGR 2330 Mechanical Prototyping AC309	SCI 2130 Modern Physics AC113	SCI 2320 Organic Chemistry AC417	MTH 3120 Partial Differential Equations AC328	MH120 AC204 AC206 AC209 AC213	AC413	SCI 1210 sec 02 Prin of Modern Biology Lecture AC417	AHSE 3599 Spec Top Entrp: Intellectual Property AC128	ENGR 2510 Software Design AC318	ENGR 3420 Intro Analog & Digital Comm AC304	ENGR 3710 Systems AC309	ENGR 2340-01 Dynamics AC328	SCI 2210 Immunology AC326	ENGR 3415 Digital Signal Processing AC126	AC404	AC413	Open Meeting Time									
12:30 PM																												
1:30 PM	MTH 2140 Sec 01 Differential Equations SESS I AC326	MTH 1120 Sec 01 Vector Calculus SESS II AC326	ENGR 3410, sec 01 Computer Architecture AC304	ENGR 3820 Failure Analysis and Prevention AC413	ENGR 2199 Spec Top in Engineering: Microfluidics AC318	OIE ENGR 1110 ALL Sec Modeling and Control MH 120	MTH 2130-03 Probability and Statistics SESS I AC417	MTH 2130-04 Probability and Statistics SESS II AC417	OIE ENGR 1110 sec 01 Modeling and Control AC428	ENGR 3450 Semiconductor Devices AC113	ENGR 2210 sec 02 Principles of Engineering AC306	ENGR 3390 Robotics AC309	ENGR 3540 Computational Modeling AC318	SCI 1210 sec 01 Prin of Modern Biology Lecture AC417	AHSE 2131 Responsive Draw & Visual Thinking AC313	AHSE 4190 AHS Capstone AC328	ENGR 3299 and 4199 Affordable Design & Entrp EC2209	ENGR 3250 Product Design and Development 1:30-5:00p AC128	SESSION I AHSE 2112 Six Books that Chg the World AND / OR SESSION II AHSE2114 Sci Fiction & Historcl Context AC326	OIE ENGR 1110 sec 02 Modeling and Control AC428	ENGR 1330 Fnd Machine Shop Operations 12:30-4:30p	ENGR 4190 SCOPE						
3:10 PM																												
3:20 PM	ENGR 3220 Human Factors and Interface Design AC109	ENGR 3310 Transport Phenomena AC309	ENGR 3410, sec 02 Computer Architecture AC304	SCI 2140 Relativity SESS I AC113	OIE ENGR 1200 ALL Sections Design Nature MH120; AC204 AC206 AC209 AC213	ENGR 3600 Topics in Bioengineering AC318		AHSE 1122 Wired Ensemble AC304 AC305	AHSE 3510 New Tech Ventures TR 4-5:35p AC126	SCI2320 L Sec A Organic Chemistry LAB AC409			SCI 1210 sec 01 Prin of Modern Biology LAB AC404 AC406	AHSE 2199 Special Top AHS: Teach Learn UG Sci and Engr 3:20-6p AC318				SCI1210 Sec 02 Prin of Modern Biology LAB AC406	SCI2320 L Sec B Organic Chemistry LAB AC409	SUST 2201 3 College Intro to Sustainability w 3:30-6:30p Location: all 3 campuses AC318 when at Olin	OIE 1000 Olin Intro Experience MH120	AC104	ENGR 4190 SCOPE					
5:00 PM																												
6:00 PM																												
9:00:00 PM																												

AHSE				SCI				Math				Integrated Offering				Color Key- Offering Blocks			
Thursday								Friday											
																9:00 AM			
MTH 2120-01 Linear Algebra SESS I AC326		ENGR 3210 Sustainable Design AC318	ENGR 3330 Mechanical Design AC309	ENGR 3499 Spec Top ECE: Microelectromechanical Systems AC304		MTH 1111/SCI 1111 All Sections Modeling and Simulation 9-11:40a	SCI 1410 sec C1 Materials Science and Solid State Chemistry 9-11:40a	AHS Foundation Topics AHSE1100: Hist of Tech AHSE1122: Wired AHSE1155: Identity AHSE1199-02: Topic: Human Connection AHSE1199-01: Topic: How the Supreme Court Shapes America AC128, 304/305, 309, 417, CC209/211		AHSE 1500 The Entrepreneurial Initiative AC326	ENGR 1199 Spec Top Engr: Microelectronic & Nanotech Revolution AC113	ENGR 2340-02 Dynamics AC328	MTH 2130-01 Probability and Statistics Computational w/ Downey SESS I AC318	MTH 2130-02 Probability and Statistics Computational w/ Downey SESS II AC318		ENGR 3699 Topics in Bioeng: Tissue Engr	SCI 1410 sec D1 Materials Science and Solid State Chemistry 9-11:40a	10:40 AM	
MTH 2110 Discrete Math AC326	ENGR 2210, sec 01 Principles of Engineering AC306	ENGR 2330 Mechanical Prototyping AC309	SCI 2130 Modern Physics AC113	SCI 2320 Organic Chemistry AC417	MTH 3120 Partial Differential Equations AC328	MH120 AC204 AC206 AC209 AC213	AC413	SCI 1210 sec 02 Prin of Modern Biology Lecture AC417	AHSE 1199-02 Human Connect Extended Block for trips til noon AC128	AHSE 4590 Entrepreneurship Capstone AC102	ENGR 2510 Software Design AC318	ENGR 3420 Intro Analog & Digital Comm AC304	ENGR 3710 Systems AC309	ENGR 2340-01 Dynamics AC328	SCI 2210 Immunology AC326	ENGR 3415 Digital Signal Processing AC126	AC404	AC413	10:50 AM
																		12:30 PM	
ENGR 1110 sec 03 Modeling and Control AC428	MTH 2140 Sec 01 Differential Equations SESS I AC326	MTH 1120 Sec 01 Vector Calculus SESS II AC326	ENGR 3410, sec 01 Computer Architecture AC304	ENGR 3820 Failure Analysis and Prevention AC413	ENGR 2199 Spec Top in Engineering: Microfluidics AC318	MTH 2130-03 Probability and Statistics SESS I AC417	MTH 2130-04 Probability and Statistics SESS II AC417	OIE ENGR 1110 sec 04 Modeling and Control AC428	ENGR 3450 Semiconductor Devices AC113	ENGR 2210 sec 02 Principles of Engineering AC306	ENGR 3390 Robotics AC309	ENGR 3540 Computational Modeling AC318	SCI 1210 sec 01 Prin of Modern Biology Lecture AC417	ENGR 3299 and 4199 Affordable Design & E! AC209	AHSE 2131 Responsive Draw & Visual Thinking AC313	SESSION I AHSE 2112 Six Books that Chg the World AND / OR SESSION II AHSE2114 Sci Fiction & Historical Context AC326			1:30 PM
OIE ENGR 1200 ALL Sections Design Nature MH120; AC204, AC206 AC209 AC213	AHSE 3510 New Tech Ventures TR 4-5:35p AC126	ENGR 3310 Transport Phenomena AC309	ENGR 3410, sec 02 Computer Architecture AC304	ENGR 3220 Human Factors and Interface Design AC109	SCI 2140 Relativity SESS I AC113	ENGR 3600 Topics in Bioengineering AC318	Community Service										3:10 PM		
																		3:20 PM	
																		5:00 PM	
																		6:00 PM	
																		9:00:00 PM	
				AHSE 0112 Olin Conductorless Orchestra 6:45-9pm 305 + 318															

SP12 Potential Offerings

Course #	Course Title	POSSIBLE Instructor(s)
AHSE 0112	The Olin Conductorless Orchestra	Dabby
AHSE 1155	Identity from the Mind and the Brain: Who Am I and How Do I Know	Adler
AHSE 1500	Foundations of Business and Entrepreneurship	Gold
AHSE 2110	The Stuff of History: Materials and Culture in Ancient, Revolutionary and Contemporary Times	Martello
AHSE 2199	Special Topics in Arts, Humanities, Social Sciences: Narrative Psychology	Adler
AHSE 3190	Arts, Humanities, Social Sciences Capstone Preparatory Workshop	Epstein
AHSE 3199	Special Topics in Arts, Humanities, Social Sciences: Leadership and Ethics	Miller/Bottomly/Schlesinger
AHSE 4190	Arts, Humanities, Social Sciences Capstone	Epstein
AHSE 4590	Entrepreneurship Capstone	TBD
ENGR 1121	Real World Measurements	Minch; Storey
ENGR 1330	Fundamentals of Machine Shop Operations	Anderson
/ AHSE 2199A	Special Topics: Engineering for Humanity	Lynch, Stein
ENGR 2210	Principles of Engineering	Govindasamy; Hoover
ENGR 2250	User Oriented Collaborative Design	Bator, MurMiranda, Ben-Ur, Somerville, Donis-Keller, Eris, Linder, Neeley
ENGR 2320	Mechanics of Solids and Structures	ME Visitor
ENGR 2330	Introduction to Mechanical Prototyping	ME Visitor
ENGR 2350	Thermodynamics	Storey
ENGR 2410	Signals and Systems	Dabby
ENGR 2420	Introduction to Microelectronic Circuits	Minch
ENGR 2510	Software Design	Downey
ENGR 2599	Special Topics in Computing	E:C Visitor
ENGR 3199	Special Topics in Engineering: Robotics 2	Bennett
ENGR 3199A	Special Topics in Engineering: Instrumentation: Sensors and Signals	Lundberg

SP12 Potential Offerings

Course #	Course Title	POSSIBLE Instructor(s)
ENGR 3240	Distributed Engineering Design	Eris
ENGR 3260	Design for Manufacturing	Miller,S
ENGR 3370	Controls	Hoover
ENGR 3520	Foundations of Computer Science	E:C Visitor
ENGR 3610	Biomedical Materials	Chachra
ENGR 3899	Special Topics in Materials Science: Thin Film Materials Science	Neal
ENGR 4190	Senior Capstone Program in Engineering (SCOPE)	Bennett, et al
ENGR 4199	Alternative Capstone in Engineering: Affordable Design and Entrepreneurship	Linder
ENGR XXXX	Real Products Real Markets	Neeley
ENGR2599A	Special Topics in Computing: Computing and Craft	Millner
MTH 2130	Probability and Statistics	math visitor
MTH 2XXX	Mathematics Foundation I	Geddes, Hoffman
MTH 3140 / ENGR 3140	Error Control Codes	Adams
MTH 3160	Introduction to Complex Variables	math visitor
SCI 1121	Physics Foundation	Somerville, Zastavker, Christianson, Mahajan
SCI 1210	Principles of Modern Biology with Lab	Huang, Pratt, J
SCI 1310	Intro Chemistry with Lab	Morse
SCI 1410	Materials Science and Solid State Chemistry with Lab: Thermal and Mechanical Properties	Stolk
SCI 1410A	Materials Science and Solid State Chemistry with Lab: Historical Context	Stolk
SCI 2220	Biomechanics	Zastavker
SCI 2299	Special Topics in Biology: Synthetic Biology	Huang
SCI XXXX/ ENGR XXXX	Renewable Energy	Christianson, Townsend